

**TRILOBITE
TESTING, INC.**

**CONFIDENTIAL
FEB 08 2006
KCC**

DRILL STEM TEST REPORT

Prepared For: **Midwestern Expl. Co.**

3500 S. Blvd Ste 2B
Edmond OK 73013

RECEIVED

ATTN: Tom Williams

FEB 10 2006

19/34/33W

KCC WICHITA

D. Brown #1-19

Start Date: 2005.12.09 @ 02:20:06

End Date: 2005.12.09 @ 16:41:25

Job Ticket #: 22346 DST #: 1

15-175-21992

990 FNL 660 FEL

S2 NE NE

Midwestern Expl. Co.

D. Brown #1-19

19/34/33W

DST # 1

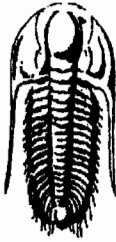
Morrow Snd.

2005.12.09

Trilobite Testing, Inc

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Midwestern Expl. Co.
3500 S. Blvd Ste 2B
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ATTN: Tom Williams

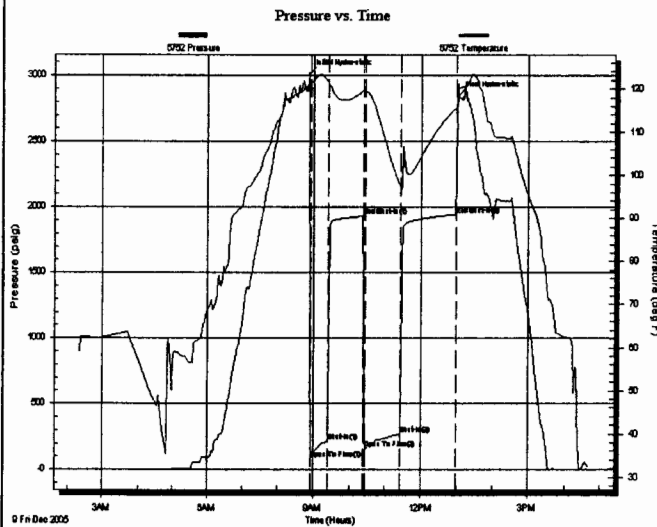
D. Brown #1-19
19/34/33W
Job Ticket: 22346 **DST#: 1**
Test Start: 2005.12.09 @ 02:20:06

GENERAL INFORMATION:

Formation: **Morrow Snd.**
Deviated: **No Whipstock** ft (KB)
Time Tool Opened: 08:54:26
Time Test Ended: 16:41:25
Interval: **6082.00 ft (KB) To 6153.00 ft (KB) (TVD)**
Total Depth: **6153.00 ft (KB) (TVD)**
Hole Diameter: **7.78 inches** Hole Condition: **Good**
Test Type: **Conventional Bottom Hole**
Tester: **Chris Hagman**
Unit No: **34**
Reference Elevations: **2900.00 ft (KB)**
2890.00 ft (CF)
KB to GR/CF: **10.00 ft**

Serial #: 6752 **Inside**
Press@RunDepth: **266.08 psig @ 6086.00 ft (KB)** Capacity: **7000.00 psig**
Start Date: **2005.12.09** End Date: **2005.12.09** Last Calib.: **1899.12.30**
Start Time: **02:20:06** End Time: **16:41:25** Time On Btm: **2005.12.09 @ 08:51:46**
Time Off Btm: **2005.12.09 @ 13:00:25**

TEST COMMENT: IF: BOB ASAO, GTS 6 min., strong steady blow
IS: No blow back
FF: BOB GTS ASAO, strong steadily building blow
FS: No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	3010.03	121.09	Initial Hydro-static
3	80.64	121.71	Open To Flow (1)
32	212.03	121.50	Shut-In(1)
91	1930.40	119.57	End Shut-In(1)
94	156.12	119.29	Open To Flow (2)
154	266.08	97.30	Shut-In(2)
246	1941.88	115.69	End Shut-In(2)
249	2845.40	121.30	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	100%M	0.07

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.75	40.00	849.72
Last Gas Rate	0.75	64.00	1224.60
Max. Gas Rate	0.75	64.00	1224.60



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TOOL DIAGRAM

Midwestern Expl. Co.

D. Brown #1-19

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19/34/33W

Job Ticket: 22346

DST#: 1

ATTN: Tom Williams

Test Start: 2005.12.09 @ 02:20:06

Tool Information

Drill Pipe:	Length: 5805.00 ft	Diameter: 3.80 inches	Volume: 81.43 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 263.00 ft	Diameter: 2.25 inches	Volume: 1.29 bbl	Weight to Pull Loose: 120000.0 lb
			<u>Total Volume: 82.72 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 98000.00 lb
Depth to Top Packer:	6082.00 ft			Final 98000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	71.00 ft			
Tool Length:	99.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			6055.00	
Shut In Tool	5.00			6060.00	
Hydraulic tool	5.00			6065.00	
Jars	5.00			6070.00	
Safety Joint	3.00			6073.00	
Packer	5.00			6078.00	28.00 Bottom Of Top Packer
Packer	4.00			6082.00	
Stubb	1.00			6083.00	
Perforations	3.00			6086.00	
Recorder	0.00	6752	Inside	6086.00	
Change Over Sub	1.00			6087.00	
Drill Pipe	62.00			6149.00	
Change Over Sub	1.00			6150.00	
Recorder	0.00	13630	Inside	6150.00	
Bullnose	3.00			6153.00	71.00 Bottom Packers & Anchor
Total Tool Length:	99.00				



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FLUID SUMMARY

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19/34/33W

Job Ticket: 22346

DST#: 1

ATTN: Tom Williams

Test Start: 2005.12.09 @ 02:20:06

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

7000 ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.17 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
15.00	100%M	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 1

Serial #:

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments: RW=1.220@48F=7000ppm

Pressure vs. Time

